AMENDMENTS TO THE SPECIFICATION

1. Please amend paragraph [0035] as follows:

[0035] At the same time, the phase signal PM2 is also applied to the phase offset 523 for the fractional-N PLL modulation 500 that is used to track the carrier frequency of VCO 521. In operation, a modulated signal from the loop filter 517 is coupled to the adder 519 such that the VCO 521 operates with two signals. By using the feed-forward phase modulation through the D/A converter 513, a change in the phase gain value will result in an equivalent change in the modulation gain of VCO 521. Thus, the nonlinear effect of VCO gain drift can be adaptively compensated by predistorting the scaling value of the phase gain 511. Also, a controller 524 receives the phase-modulated baseband signal and the carrier frequency signal to produce a digital bit stream used signal to control a reference frequency coupled to an input of the phase detector 515.

2. Please amend paragraph [0037] as follows:

[0037] According to one embodiment, the fractional-N phase-locked loop (PLL) frequency synthesizer 500 is used as a functional building block in the transmitter 580. The phase-locked loop 500 includes a phase detector 515, a loop filter 517, a voltage controlled oscillator (VCO) 521 and a loop divider 525. The phase detector 515 serves as a comparator means for comparing the signal from the controller 524 reference signal free to the divided loop output signal which is coupled to the output of from the divider 525. The phase detector 515 generates a frequency tuning control signal that is coupled to the loop filter 517. The voltage level of this frequency tuning control signal is proportional to the difference in frequencies of the compared signals. The loop filter 517 receives and filters the frequency tuning control signal and provides a control signal to the input node 519 to the VCO 521. The VCO 521 serves as a frequency generation means for generating the loop output signal fout in response to the VCO input control signal. The loop divider 525 is coupled to the output of the VCO 521 and generates a divided loop signal which corresponds to the frequency to the loop output signal divided by integer N or N+1. The output of the loop divider **525** is provided as the loop feedback signal to the other input of phase detector **515**.